	F	xploring the Ex	treme	
		ience Revised		
State Curriculum				
Maryland Science Revised January 2008				
Grade K				
Activity/Lesson	State	Standards		
Finding the Center of Gravity Using Rulers		SCI.K.1.A.1.a	Describe what can be learned about things by just observing those things carefully and adding information by sometimes doing something to the things and noting what happens.	
Finding the Center of Gravity Using Rulers		SCI.K.1.A.1.b	Seek information through reading, observation, exploration, and investigations.	
Finding the Center of Gravity Using Rulers	MD	SCI.K.1.A.1.c	Use tools such as thermometers, magnifiers, rulers, or balances to extend their senses and gather data. Develop reasonable explanations for observations made, investigations	
Finding the Center of Gravity Using Rulers		SCI.K.1.B.1.b	completed, and information gained by sharing ideas and listening to others' ideas.	
Finding the Center of Gravity Using Rulers	MD	SCI.K.1.D.3.a	Explain that a model of something is different from the real thing but can be used to learn something about the real thing.	
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Maryland Science R	evised January 200			
Grade 1				
Activity/Lesson	State	Standards		
Finding the Center of Gravity Using Rulers		SCI.1.1.A.1.a	Describe what can be learned about things by just observing those things carefully and adding information by sometimes doing something to the things and noting what happens.	
Finding the Center of Gravity Using Rulers		SCI.1.1.A.1.b	Seek information through reading, observation, exploration, and investigations.	
Finding the Center of Gravity Using Rulers		SCI.1.1.A.1.c	Use tools such as thermometers, magnifiers, rulers, or balances to extend their senses and gather data.	
Finding the Center of Gravity Using Rulers		SCI.1.1.B.1.b	Develop reasonable explanations for observations made, investigations completed, and information gained by sharing ideas and listening to others' ideas.	
Finding the Center of Gravity Using Rulers		SCI.1.1.D.3.a	Explain that a model of something is different from the real thing but can be used to learn something about the real thing.	

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2006 Science Revised January 2008				
State Curriculum				
Maryland Science R	Maryland Science Revised January 2008			
Grade 2				
Activity/Lesson	State	Standards		
Finding the Center of Gravity Using Rulers		SCI.2.1.A.1.a	Describe what can be learned about things by just observing those things carefully and adding information by sometimes doing something to the things and noting what happens.	
Gravity Comig Traicis	IVID	001.2.1.7 t.1.a	паррепо.	
Finding the Center of Gravity Using Rulers		SCI.2.1.A.1.b	Seek information through reading, observation, exploration, and investigations. Use tools such as thermometers, magnifiers,	
Finding the Center of Gravity Using Rulers		SCI.2.1.A.1.c	rulers, or balances to extend their senses and gather data. Develop reasonable explanations for	
Finding the Center of Gravity Using Rulers		SCI.2.1.B.1.b	observations made, investigations completed, and information gained by sharing ideas and listening to others' ideas.	
Finding the Center of Gravity Using Rulers		SCI.2.1.D.3.a	Explain that a model of something is different from the real thing but can be used to learn something about the real thing.	
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Maryland Science R	evised January 200			
Grade 3				
Activity/Lesson	State	Standards		
Finding the Center of Gravity Using Rulers		SCI.3.1.A.1.b	Select and use appropriate tools hand lens or microscope (magnifiers), centimeter ruler (length), spring scale (weight), balance (mass), Celsius thermometer (temperature), graduated cylinder (liquid volume), and stopwatch (elapsed time) to augment observations of objects, events, and processes.	
Finding the Center of Gravity Using Rulers		SCI.3.1.C.1.d	Construct and share reasonable explanations for questions asked.	
Finding the Center of Gravity Using Rulers Finding the Center of	MD	SCI.3.1.D1.C.a	Explain that a model is a simplified imitation of something and that a model's value lies in suggesting how the thing modeled works.	
Gravity Using Plumb Lines Finding the Center of	MD	SCI.3.1.C.1.d	Construct and share reasonable explanations for questions asked. Explain that a model is a simplified imitation	
Gravity Using Plumb Lines	MD	SCI.3.1.D1.C.a	of something and that a model's value lies in suggesting how the thing modeled works.	

			Coloct and the environments to de hand lane
			Select and use appropriate tools hand lens
			or microscope (magnifiers), centimeter ruler
			(length), spring scale (weight), balance
			(mass), Celsius thermometer (temperature),
			graduated cylinder (liquid volume), and
Changing the Center			stopwatch (elapsed time) to augment
of Gravity Using			observations of objects, events, and
Moment Arms	MD	SCI.3.1.A.1.b	processes.
Changing the Center			
of Gravity Using			Construct and share reasonable
Moment Arms	MD	SCI.3.1.C.1.d	explanations for questions asked.
Changing the Center			Explain that a model is a simplified imitation
of Gravity Using			of something and that a model's value lies in
Moment Arms	MD	SCI.3.1.D1.C.a	suggesting how the thing modeled works.
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Maryland Science R	evised January 200	8	
Grade 4			
Activity/Lesson	State	Standards	
			Select and use appropriate tools hand lens
			or microscope (magnifiers), centimeter ruler
			(length), spring scale (weight), balance
			(mass), Celsius thermometer (temperature),
			graduated cylinder (liquid volume), and
			stopwatch (elapsed time) to augment
Finding the Center of			observations of objects, events, and
Gravity Using Rulers	MD	SCI.4.1.A.1.b	processes.
Finding the Center of			Construct and share reasonable
Gravity Using Rulers	MD	SCI.4.1.C.1.d	explanations for questions asked.
			Explain that a model is a simplified imitation
Finding the Center of			of something and that a model's value lies in
Gravity Using Rulers	MD	SCI.4.1.D1.C.a	suggesting how the thing modeled works.
Finding the Center of			
Gravity Using Plumb			Construct and share reasonable
Lines	MD	SCI.4.1.C.1.d	explanations for questions asked.
Finding the Center of			Explain that a model is a simplified imitation
Gravity Using Plumb			of something and that a model's value lies in
Lines	MD	SCI.4.1.D1.C.a	suggesting how the thing modeled works.
			Investigate and describe that seeing how a
Finding the Center of			model works after changes are made to it
Gravity Using Plumb			may suggest how the real thing would work if
Lines	MD	SCI.4.1.D1.C.b	the same were done to it.
Finding the Center of			
Gravity Using Plumb			Investigate and describe how electricity in a
Lines	MD	SCI.4.5.C.3.e	wire affects the needle of a compass.
		001.4.0.0.0.0	mile andote the hoodie of a compass.

			Select and use appropriate tools hand lens
			or microscope (magnifiers), centimeter ruler
			(length), spring scale (weight), balance
			(mass), Celsius thermometer (temperature),
			graduated cylinder (liquid volume), and
Changing the Center			stopwatch (elapsed time) to augment
of Gravity Using			observations of objects, events, and
Moment Arms	MD	SCI.4.1.A.1.b	processes.
Montent Anns	טועו	3C1.4. 1.A. 1.D	Submit work to the critique of others which
Changing the Center			involves discussing findings, posing
of Gravity Using			questions, and challenging statements to
Moment Arms	MD	SCI.4.1.C.1.c	clarify ideas.
Changing the Center	IVID	301.4.1.0.1.0	cially lucas.
of Gravity Using			Construct and share reasonable
Moment Arms	MD	SCI.4.1.C.1.d	explanations for questions asked.
Changing the Center	IVID	3C1.4.1.C.1.u	Explain that a model is a simplified imitation
of Gravity Using			of something and that a model's value lies in
Moment Arms	MD	SCI 4 1 D1 C a	suggesting how the thing modeled works.
Montent Anns	IVID	3C1.4. 1.D1.C.a	suggesting now the thing modeled works.
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Maryland Science R	evised January 200		
Grade 5			
Activity/Lesson	State	Standards	
,,,			Explain that a model is a simplified imitation
			of something and that a model's value lies in
Jet Propulsion	MD	SCI.5.1.D1.C.a	suggesting how the thing modeled works.
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			Offer reasons for their findings and consider
Vectoring	MD	SCI.5.1.B.1.b	reasons suggested by others.
			Review different explanations for the same
			set of observations and make more
Vectoring	MD	SCI.5.1.B.1.c	observations to resolve the differences.
			Construct and share reasonable
Vectoring	MD	SCI.5.1.C.1.d	explanations for questions asked.
			Explain that a model is a simplified imitation
			of something and that a model's value lies in
Vectoring	MD	SCI.5.1.D1.C.a	suggesting how the thing modeled works.
			Select and use appropriate tools hand lens
			or microscope (magnifiers), centimeter ruler
			(length), spring scale (weight), balance
			(mass), Celsius thermometer (temperature),
			graduated cylinder (liquid volume), and
			stopwatch (elapsed time) to augment
Center of Gravity,			observations of objects, events, and
Pitch, Yaw	MD	SCI.5.1.A.1.b	processes.
Exploring the Extreme			
2006 Science Revised January 2008			
State Curriculum			
Maryland Science R	evised January 200) 8	
Grade 6			

Activity/Lesson	State	Standards			
,			Explain that the kind of model to use and		
			how complex it should be depends on its		
			purpose and that it is possible to have		
			different models used to represent the same		
Jet Propulsion	MD	SCI.6.1.D1.C.a	·		
'			Explain that scientists differ greatly in what		
			phenomena they study and how they go		
Vectoring	MD	SCI.6.1.A.1.a	about their work.		
			Develop the ability to clarify questions and		
			direct them toward objects and phenomena		
			that can be described, explained, or		
Vectoring	MD	SCI.6.1.A.1.b	predicted by scientific investigations.		
			Explain how different models can be used to		
			represent the same thing. What kind of a		
			model to use and how complex it should be		
			depend on its purpose. Choosing a useful		
			model is one of the instances in which		
			intuition and creativity come into play in		
Vectoring	MD	SCI.6.1.C.1.e	science, mathematics, and engineering.		
		Exploring the Ex			
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		State Curricul	um		
Maryland Science	Revised Janua	ary 2008			
Grade 7	01-1-	01			
Activity/Lesson	State	Standards	Develop the chility to clorify avections and		
			Develop the ability to clarify questions and		
			direct them toward objects and phenomena that can be described, explained, or		
Vectoring	MD	SCI.7.1.A.1.b	predicted by scientific investigations.		
vectoring	IVID	301.7.1.A.1.0	Explain and provide examples that all		
			hypotheses are valuable, even if they turn		
			out not to be true, if they lead to fruitful		
Vectoring	MD	SCI.7.1.A.1.c	investigations.		
Vocioning	IVID	001.7.1.7.1.0	investigations.		
			Organize and present data in tables and		
Fuel Efficiency	MD	SCI.7.1.C.1.a	graphs and identify relationships they reveal.		
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		Exploring the Ex	treme		
	2006 Science Revised January 2008				
		State Curricul	um		
Maryland Science	Revised Janua	ary 2008			
Grade 8	01-1-	Ot an danda			
Activity/Lesson	State	Standards	Dayolon the obility to clarify sweetless and		
			Develop the ability to clarify questions and		
			direct them toward objects and phenomena		
\/ootoric	MD	0010444	that can be described, explained, or		
Vectoring	MD	SCI.8.1.A.1.b	predicted by scientific investigations.		

			Explain and provide examples that all hypotheses are valuable, even if they turn out not to be true, if they lead to fruitful
Vectoring	MD		investigations.
			Organize and present data in tables and
Fuel Efficiency	MD	SCI.8.1.C.1.a	graphs and identify relationships they reveal.